**Programming Fundamentals   
Lecture 6/7 (Function)**

**Q1. Write a C++ program that creates an array of 5 integers in main (Do not initialize values in array).Create another array of ten integers in main (Do not initialize values in array). Write a function to input an array of any size. Write another function to display an array of any size. Call the input function in main to read values of first array. Call the display function in main to display the value initialized in first array by the first function.  
Call the input function in main to read values of second array. Call the display function in main to display the value initialized in the second array by the first function.**

**Q2.Write a C++ program containing two function other than main where the first function is taking input of integer array of size 5 , the second function is searching a value input by user in that array. Display a message found if value exists otherwise display not found.**

**Q3.Write a C++ program containing two function other than main where the first function is taking input of integer array of size 5 , the second function is searching a value input by user in that array. Display the index of the value found if value exists otherwise display not found.**

**Q4.Write a C++ program containing two function other than main where the first function is taking input of integer array of size 5 , the second function is searching a value input by user in that array. Display how many times the value found in the array if value exists otherwise display not found.**

**Q5.Write a C++ program containing two function other than main where the first function is taking input of integer array of size 5 , the second function is searching a value input by user in that array. Display all the indexes where the value found if value exists in the array otherwise display not found.**

**Q6.Write a C++ program containing two function other than main where the first function is taking input of integer array of size 5, the second function is searching a value input by user in that array. Create another array of size 5 to save all the indexes of the value found in second array if value exists in array otherwise display not found. Also count how many times the value found. Write a function that will display any array. Call that function to display the array storing indexes. Run the loop to the count of how many indexes are stored instead of the actual size.**

**Q7. Write a C++ program containing the following functions other than main:**

1. **A function that reads a sentence input by user**
2. **A function that count all the words in the sentence read by the above function.**
3. **A function that displays all the words in a sentence in separate lines. A main function that will call all the above functions**
4. **A main function that will call all the above functions.**